TOP SECRET

OUT56929

1965 OCT 15 19 12Z

multi

TOPSECRET 151835Z

25X1

[redacted]

THIS IS A PHOTOGRAPHIC EVALUATION INTERIM REPORT (PEIR).

MISSION NO AND DATES: 1024-1, 22-27 SEP 65; 1024-2, 27 SEP-2 OCT 65

VEHICLE NUMBER: 1619

CAMERA SYSTEM J-24

MAIN INSTRUMENT NUMBERS: 172 AND 173

STELLAR/INDEX MSN 1024-1: D-69/72/84

STELLAR/INDEX MSN 1024-2: D-64/82/66

A. PERFORMANCE SUMMARY:

THE IMAGE QUALITY OF THE PHOTOGRAPHY PRODUCED WAS EQUAL TO OR BETTER THAN PREVIOUS CORONA MISSIONS DURING THE PAST YEAR. THE PHOTOGRAPHIC INTERPRETERS CONCUR WITH THIS JUDGMENT OF IMAGE QUALITY. THE BEST GROUND RESOLUTION OBTAINED FROM MEDIUM CONTRAST CORN TARGET DISPLAYS WAS [redacted]. 25X1

B. ANOMALIES:

THE ANOMALIES IN THE [redacted] 42 MESSAGES (REF A AND B) WERE REVIEWED: 25X1

ANOMALY	CAUSE	ACTION
WEAK INDEX LIGHT ON	CAMERA POWER WAS RE-	(1) ADJUST CAM TO

[redacted] 25X1

TOP SECRET

LAST FRAME OF PANORAMIC OPERATION	MOVED NEARLY COINCIDENT WITH REQUEST FOR INDEX LAMPS PRINTING PULSE	REQUEST THE INDEX LAMP PRINTING PLUSE EARLIER IN THE CYCLE
DIFFICULTY IN AUTOMATIC READOUT OF BINARY TIME WORD	THE READOUT EQUIPMENT IS NOT ABLE TO QUICKLY ADJUST TO DENSITY DIFFERENCES IN THE BINARY DATA BLOCK INDUCED BY FREQUENT PROCESSING CHANGES	(2) INVESTIGATE MEANS OF MAKING READOUT EQUIPMENT LESS SENSITIVE. (1) IMPROVED PRINTING OF BINARY DATA WILL BE INVESTIGATED
BINARY TIME INCORRECT TIME	UNKNOWN	UNDER INVESTIGATION
SMEAR PULSE ON THE 200 CPS TIME TRACK INDICATING INDEX CAMERA OPERATION IS TOO LONG	INADEQUATE SPEDIFICATION OF PULSE LENGTH	(1) ESTABLISH A SPECIFICATION AFTER DETERMINING THE LENGTH PULSE DESIRED BY THE USER
MASTER STBD HORIZONS "VEILED"	UNKNOWN EXTERNAL SOURCE OF STRAY LIGHT	NONE
LIGHT LEAKS	(A) ABLATIVE SHIELD AREA (B) BARREL INTERFACE OR DRUM	(3) INITIATE SPECIAL SYSTEM LIGHT LEAK TESTING
DENDRITIC STATIC SCRATCHES	NORMAL RETRIEVAL	NONE
	(A) RAIL - (SYSTEM-	(A) NONE

(A) RAIL	ATIC)	(B) NONE
(B) SCAN ROLLER	(B) SCAN ROLLER - (SYSTEMATIC)	
(C) INTERMITTENT, RANDOM	(C) CAMERA SYSTEM	(1) (C) CONTINUE CAREFUL ANALYSIS OF PRE-FLIGHT RECORD
FUEL PARTICLES IN STELLAR	JETTISONED FUEL	NONE
COMET STELLAR IMAGES PROCESSOR PROBLEM ON STELLAR RECORD	VEHICLE DISTURBANCES SPLICE SEPARATION IN PROCESSOR	NONE (1) IMPROVED SPLICE ON FUTURE MISSIONS
YARDLEIGH PROCESSING CHANGES IN FRAME FORMAT	LOSS OF FRAME LINE SYNCHRONIZATION ON DARK SIDE PHOTOGRAPHY	(1) REPORT ALL NIGHT PHOTOGRAPHY IN [redacted] 25X1 TO ALERT THE OPERATOR TO MANUALLY ADJUST THE PROCESSOR
DIFFICULTY IN DETERMINING PROPER TITLING FOR PHOTOGRAPHY IN A89	OPERATION NOT ACCOUNTED FOR IN [redacted] 70	(1) REPORT ALL OPERATIONS IN [redacted] 25X1

CODE FOR ACTION ITEMS:

(1) TO BE ACCOMPLISHED BY CONTRACTORS WITHOUT FURTHER DIRECTION.

(2) RESPONSIBILITY OF [redacted] 25X1

(3) REQUIRES FURTHER DIRECTION OF PROGRAM MANAGEMENT.

C. COMMENTS:

1. SINCE MANY ASPECTS OF THE QUALITY OF THE MISSION CANNOT BE

EVALUATED FROM THE DUPLICATE POSITIVES, IT IS REQUESTED THAT ALL ORIGINAL NEGATIVES OF THE [redacted] BE PROVIDED FOR EVALUATION. 25X1

2. YARDLEIGH VS TRENTON PROCESSING WAS EVALUATED AND THE FOLLOWING OBSERVATIONS CAN BE MADE:

A. THE YARDLEIGH PROCESSOR MADE 355 PROCESSING LEVEL CHANGES ON THE 1024-2 MASTER RECORD, WHILE THE TRENTON MADE 30 PROCESSING CHANGES ON THE 1024-2 SLAVE RECORD.

B. THE PRELIMINARY DENSITY DATA INDICATES THAT THE D-MIN VALUES FROM YARDLEIGH PROCESSED MATERIAL ARE MORE CONSISTENT THAT THE TRENTON PROCESSED MATERIAL.

C. THERE IS NO APPARENT VARIATION IN IMAGE QUALITY BETWEEN THE TRENTON AND THE YARDLEIGH PROCESSED MATERIAL EVIDENT ON THE SECOND GENERATION DUPLICATE POSITIVE.

D. IT IS DIFFICULT TO MAKE A MEANINGFUL COMPARISON BETWEEN THE YARDLEIGH AND THE TRENTON PROCESSING DUE TO THE FOLLOWING: (A) PROCESSING ONLY MASTER RECORD ON THE YARDLEIGH, AND (B) OBSERVATIONS ON THE DUPLICATE POSITIVES.

E. THE EVALUATION TEAM WAS UNABLE TO REACH A DEFINITE CONCLUSION REGARDING THE MERITS OF THE YARDLEIGH PROCESSING. MORE COMPLETE INFORMATION RELATIVE TO THE ORIGINAL NEGATIVE IS REQUIRED. FURTHER, ADDITIONAL TESTS SHOULD BE DONE BY PROCESSING DIFFERENT PORTIONS OF THE SAME RECORD IN BOTH PROCESSORS.

T O P S E C R E T

--END OF MESSAGE--